



Best Available Copy

REALNET.140A

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Sabin Belu
Appl. No.	:	09/818,134
Filed	:	March 27, 2001
For	:	SYSTEMS AND METHODS FOR CREATING SELF-EXTRACTING FILES
Examiner	:	Joon H. Hwang
Group Art Unit	:	2162

DECLARATION OF PRIOR INVENTORSHIP UNDER 37 C.F.R. §1.131

I, Steven C. Stewart, hereby declare as follows:

1. The following declaration is directed to establishing invention of the subject matter of the pending claims of the above-referenced application, U.S. Patent Application No. 09/818,134 (the "Present Application"), filed March 27, 2001, prior to the effective date of U.S. Publication No. US 2002/0026521 A1 to Sharfman et al, having a filing date of January 10, 2001 (the "Sharfman application").

2. RealNetworks, Inc. is the assignee of all title and interest in the Present Application as set forth in the Assignment of all title and interest in the Present Application from the sole inventor, Sabin Belu, to RealNetworks, Inc. A copy of the Notice of Recordation of Assignment Document and the Assignment are attached hereto as Exhibit 1.

3. I am an empowered representative of RealNetworks, Inc. to handle patent matters on behalf of RealNetworks, Inc.

4. Mr. Belu is no longer employed by RealNetworks, Inc.

5. RealNetworks, Inc. instructed its patent attorneys to contact Mr. Belu.

6. On information and belief, the patent attorneys attempted to contact Mr. Belu at his last known phone number, but he no longer was at that phone number.

7. On information and belief, the patent attorneys also conducted internet searches for a new phone number or new address for Mr. Belu.

8. On information and belief, the patent attorneys attempted to call Mr. Belu as the phone numbers they found, but were unable to locate Mr. Belu.

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Filed : **March 27, 2001**

9. On information and belief, the patent attorneys attempted to send Mr. Belu a letter via Federal Express to an address they found, but the package was returned stating that Mr. Belu was not at the address. A copy of the returned package from Federal Express is attached hereto as Exhibit 2.

10. On information and belief, the patent attorneys then located an old email address for Mr. Belu and sent an email to him on October 11, 2005. Mr. Belu responded stating that "I no longer work for RealNetworks. I have been laid off 2001." The patent attorneys then sent Mr. Belu a follow up email on October 12, 2005 attempting to schedule a time to speak with Mr. Belu regarding the pending application. A copy of the email chain is attached hereto as Exhibit 3.

11. On information and belief, to date, the patent attorneys have not received any response from Mr. Belu.

12. Thus, at this time, Mr. Belu is unavailable.

13. I am familiar with the prosecution of the Present Application, including the pending claims.

14. I have been advised that certain pending claims of the present application have been rejected as anticipated by the Sharfman application. In addition, other pending claims of the present application have been rejected as being obvious over the Sharfman application in light of other references.

15. The signed Declaration of Stanislav Bobrovskiy, attached hereto as Exhibit 4, shows that prior to January 10, 2001, Mr. Belu, a citizen of Romania, conceived of the invention recited in the pending claims of the Present Application in this country.

16. Moreover, Exhibit 4 shows that, prior to January 10, 2001, Mr. Belu implemented and tested the invention recited in the pending claims of the Present Application thereby reducing the invention to practice prior to January 10, 2001.

17. Exhibits A, B, and C of Exhibit 4 are redacted copies of Mr. Belu's invention disclosure. The exhibits were redacted to remove confidential information.

18. I have reviewed non-redacted copies of Exhibits A, B, and C of Exhibit 4. Exhibits A, B, and C indicate that they were signed by Mr. Belu prior to January 10, 2001, and

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were also witnessed and signed by Florin Trofu, Michael Moshell, and James Knaack, respectively, all prior to January 10, 2001.

19. The non-redacted copies of Exhibits A, B, and C also indicate that Mr. Belu conceived of the invention recited in the pending claims of the Present Application prior to January 10, 2001.

20. In addition, the non-redacted copies of Exhibits A, B, and C indicate that, prior to January 10, 2001, Mr. Belu implemented and tested the invention recited in the pending claims of the Present Application thereby reducing the invention to practice prior to January 10, 2001.

I declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful, false statements may jeopardize the validity of the application or any patent resulting therefrom.

REALNETWORKS, INC.

Dated: 1/5/2006

By: 

Signature

Steven C. Stewart

Name

Chief Patent Counsel

Title

2170206
120605



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JUNE 15, 2001

PTAS
KNOBBE, MARTENS, OLSON & BEAR, LLP
ARTHUR S. ROSE
620 NEWPORT CENTER DRIVE
SIXTEENTH FLOOR
NEWPORT BEACH, CA 92660



101663335A

UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 03/27/2001

REEL/FRAME: 011665/0388
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
BELU, SABIN

DOC DATE: 03/26/2001

ASSIGNEE:
REALNETWORKS, INC.
2601 ELLIOTT AVENUE
SEATTLE, WASHINGTON 98121

SERIAL NUMBER: 09818134
PATENT NUMBER:

FILING DATE: 03/27/2001
ISSUE DATE:

JEFFREY OLSEN, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

Client Code: REALNET.140A



RECORDATION FORM COVER SHEET
PATENTS ONLY

TO THE ASSISTANT COMMISSIONER FOR PATENTS: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): (If multiple assignors, list numerically)

Sabin Belu

Additional name(s) of conveying party(ies) attached?

() Yes (X) No

2. Name and address of receiving party(ies):

Name: RealNetworks, Inc.

Internal Address:

Street Address: 2601 Elliott Avenue

City: Seattle State: Washington ZIP: 98121

Additional name(s) of receiving party(ies) attached?

() Yes (X) No

3. Nature of conveyance:

- (X) Assignment
() Merger
() Security Agreement
() Change of Name
() Other:

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) March 26, 2001

4. Application number(s) or Patent number(s):

(X) Application(s) filed herewith
Execution Date(s): March 26, 2001

() Patent Application No.:
Filing Date:

() Patent No.:
Issue Date:

Additional numbers attached? () Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Arthur S. Rose
KNOBBE, MARTENS, OLSON & BEAR, LLP
Customer No. 20,995

Internal Address: Sixteenth Floor

Street Address: 620 Newport Center Drive

City: Newport Beach State: CA ZIP: 92660

Attorney's Docket No.: REALNET.140A

7. Total fee (37 CFR 3.41): \$40

(X) Enclosed

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: One

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.

Arthur S. Rose

Name of Person Signing

Signature

Date

28,038

Registration No.

Total number of pages including cover sheet, attachments and document: Two (2)

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents
Box Assignments
Washington, D.C. 20231

H:\DOCS\TMCMC-1167.DOC
032701



Application No.: Filed Herewith
Filing Date: On Even Date Herewith

PATENT
Client Code: REALNET.140A
Page 1

ASSIGNMENT


WHEREAS, I, Sabin Belu, a Romania citizen, residing at 1705 Belmont Avenue, #302, Seattle, Washington, 98122, have invented certain new and useful improvements in a SYSTEMS AND METHODS FOR CREATING SELF-EXTRACTING FILES for which I have executed an application for Letters Patent in the United States, on even date herewith;

AND WHEREAS, RealNetworks, Inc. (hereinafter "ASSIGNEE"), a Washington Corporation, with its principal place of business at 2601 Elliott Avenue, Seattle, Washington, 98121, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 26th day of March, 2001.


Sabin Belu

STATE OF WA

COUNTY OF KING

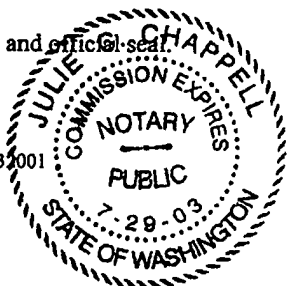
} ss.

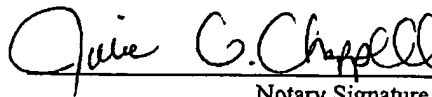
On March 26, 2001, before me, Julie G. Chappell, personally appeared Sabin Belu personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that they executed the same in their authorized capacity(ies), and that by their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

H:\DOCS\TMC\TMC-1151.DOC-03001




Notary Signature

Julie G. Chappell



Customer
and conven

FedEx
RE ATP
25MAY

Attempted Delivery: 09:52 Reattempt Delivery: 16:30 on 26MAY
Recpt Addr: 8241 MILL WHEEL DR NO RELEASE NUMBER ON FILE

Pkg Trk#: 848161837618

Pcs: 1
Emp# 310708 Rt#: 433
1 of 1

RTS
Receipt not at address

500 **FedEx** **US Airbill** **Express** 8481 6183 7618

191

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records

Date 05/24/05 FedEx Tracking Number 848161837618

Sender's Name Amy C. Christensen Phone 949 760-0404

Company KNOBBE MARTENS OLSON & BEAR

Address 2040 MAIN ST FL 14

City IRVINE State CA Zip 92614-7216

2 Your Internal Billing Reference

REALNET.140A

3 To

Recipient's Name Sabin Belu

Phone

Company

Recipient's Address 8241 Millwheel Drive

We expect delivery to P.O. boxes or P.O. ZIP codes.

Address to request a package be held at a specific FedEx location, print FedEx address here.

City Dayton State OH Zip 45458



0284473093

FedEx **PRIORITY OVERNIGHT**

emp: 491822 24MAY05

TRK# 8481 6183 7618 FORM 0215

45458 -OH-US

DAY
NW MWOA

Deliver By: 25MAY05 A2

WED



Recipient's Copy

4a Express Package Service

☒ FedEx Priority Overnight ☐ FedEx Standard Overnight

☐ FedEx 2Day ☐ FedEx Express Saver

4b Express Freight Service

☐ FedEx 1Day Freight* ☐ FedEx 2Day Freight ☐ FedEx 3Day Freight

5 Packaging

☒ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☐ Other

6 Special Handling

☐ Saturday Delivery ☐ HOLD Overnight at FedEx Location ☐ HOLD Saturday at FedEx Location

☐ Signature Required ☐ Signature Not Required ☐ Signature Restricted ☐ Signature Restricted (Business Only)

7 Payment Bill

☐ Sender's Account ☐ Recipient's Account ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages

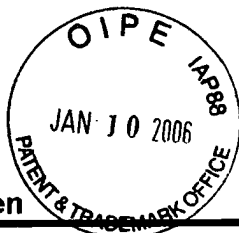
Total Weight

Total Charges

8 Sign to Authorize Delivery Without a Signature

By signing this airbill, you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

466



Amy Christensen

From: Amy Christensen [amy.christensen-chun@kmob.com]
Sent: Wednesday, October 12, 2005 3:07 PM
To: 'Sabin Belu'
Subject: RE: Pending Patent Application

Sabin,

Thanks for your email! I hope that things are going well for you and that you found a new place to work.

As for the pending application, we had some questions regarding the application. Do you have time to speak with me regarding this? If so, let me know what day/time is good for you. My schedule is pretty flexible.

Thanks!!

-Amy
(949) 721-7603

-----Original Message-----

From: Sabin Belu [mailto:sabin24@hotmail.com]
Sent: Tuesday, October 11, 2005 11:36 PM
To: amy.christensen-chun@kmob.com
Subject: RE: Pending Patent Application

Amy,
Hello
I no longer work for RealNetworks. I have been laid off 2001
-Sabin

-----Original Message Follows-----

From: "Amy Christensen" <amy.christensen-chun@kmob.com>
To: "'sabin24@hotmail.com'" <sabin24@hotmail.com>
Subject: Pending Patent Application
Date: Tue, 11 Oct 2005 16:48:35 -0700

Sabin,

Hello! I don't know if you remember me, but we worked together (with Tina Chappell) a while back on a patent filing. We have some questions regarding the application and were trying to get in contact with you. Unfortunately, the phone numbers we have for you are no longer valid. Thus, if you could email me or give me a call back to discuss, we would greatly appreciate it.

Thanks,

Amy

Amy Christensen Chun
Partner
Knobbe Martens Olson & Bear LLP
2040 Main Street, 14th Floor
Irvine, CA 92614-3641
949-721-7603
949-760-9502 Fax
Email: <mailto:achristensen@kmob.com> achristensen@kmob.com
Website: <http://www.kmob.com/> www.kmob.com

"<KMOB.COM>" made the following annotations.

--
PRIVILEGED AND CONFIDENTIAL COMMUNICATION

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"<KMOB.COM>" made the following annotations.

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REALNET.140A

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Sabin Belu
Appl. No.	: 09/818,134
Filed	: March 27, 2001
For	: SYSTEMS AND METHODS FOR CREATING SELF-EXTRACTING FILES
Examiner	: Joon H. Hwang
Group Art Unit	: 2162

DECLARATION

I, Stanislav Bobrovskiy, hereby declare as follows:

1. The following declaration is directed to establishing invention of the subject matter of the pending claims of the above-referenced application, U.S. Patent Application No. 09/818,134 (the "Present Application"), filed March 27, 2001, prior to the effective date of U.S. Publication No. US 2002/0026521 A1 to Sharfman et al, having a filing date of January 10, 2001 (the "Sharfman application").

2. Prior to January 10, 2001, Sabin Belu, a citizen of Romania, conceived of the invention recited in the pending claims of the Present Application in this country and described the invention recited in the pending claims of the Present Application in an invention disclosure form.

3. Prior to January 2001, I was Mr. Belu's manager.

4. Redacted copies of Mr. Belu's signed, invention disclosure form are attached hereto as Exhibits A, B, and C.

5. The unredacted versions of Mr. Belu's signed invention disclosure form each includes Mr. Belu's signature, includes a signature of a witness, and is dated before January 10, 2001.

6. Mr. Belu fully implemented and tested a program that included the invention recited in the pending claims of the Present Application prior to January 10, 2001.

7. Mr. Belu demonstrated the program to me prior to January 2001.

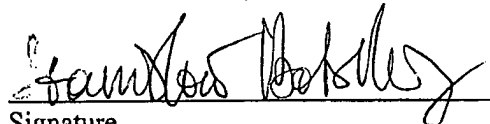
Appl. No. : 09/818,134
Filed : March 27, 2001

8. Thus, Mr. Belu reduced to practice the invention recited in the pending claims of the Present Application prior to January 10, 2001.

I declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful, false statements may jeopardize the validity of the application or any patent resulting therefrom.

REALNETWORKS, INC.

Dated: 1/3/2006

By: 
Signature

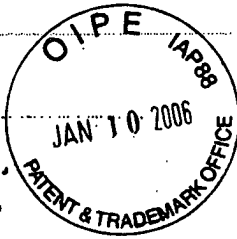
Stanislav Bobrovskiy

Name

TECHNICAL LEAD

Title

2170209
120605



1. Title of invention

ONE CLICK UNIVERSAL SELF-EXTRACTOR

2. Date invention made

REDACTED

3. Brief Description. Is the invention a new process, composition of matter, a device or one or more products. A new use for, or an improvement to, an existing product or process:

The One Click Universal Self-Extractor, namely referred to as Lipon, after the project name, comes with a new idea that helps speeding up a process, already known, as the self extracting-archives.

A self extracting archive is a collection of files, compressed or stored, with a binary decompression engine attached as an overhead. The result is therefore an executable file that knows how to deal (list, test, extract) with the archive without help from an external unpacking utility.

The process of creating such a self extracting archive requires sometimes more steps than necessary especially when dealing with only one file, default parameters required for extraction and execution of that file.

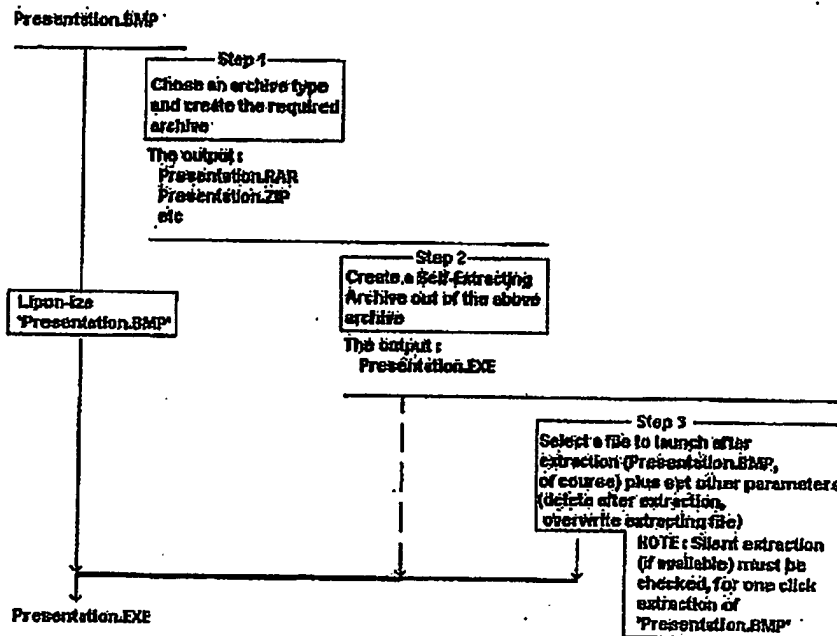
However, the One Click Universal Self Extractor, shortly, Lipon, removes the idea of an existing archive and replaces it with the idea of an universal self extracting file.

There are only known Executable compressors that deal with files and not archives. However, they deal only with executable files, of course, and they launch the executable file by loading it from the memory location where it was extracted. That is completely different from how Lipon works, extracting it in a temporary file and then executing it.

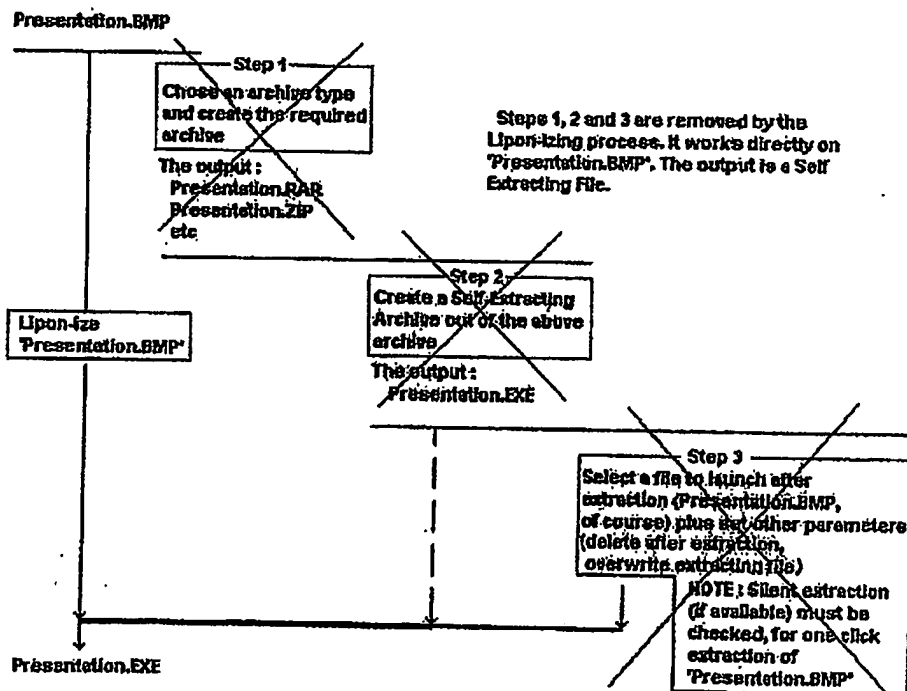
As far as I know, working with any type of file, it is a new idea. That's why it is called 'universal'.

Some might say, that it is actually an archive with only one file. True. But since the process doesn't require that extra step in obtaining the same output, we can say that the term 'archive' (meaning a collection of packed files) is not needed any more.

Here is the process of creating a One Click Universal Self-Extractor, shortly the process of Lipon-izing a file, called 'Presentation.Bmp' compared to the existing technology.



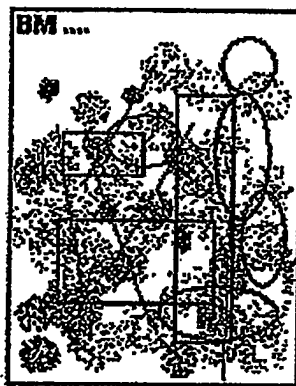
All these steps that must be followed, when using another utility, are removed by the Lipon-izing process. It works directly on the file, and with one move, it will output the exact Self-Extracting File that will otherwise require many steps in creation (if usual methods are followed).



The way Lipon.exe works on each file, is shown in this image. It attaches a decompression stub (2.5 – 3 Kbytes in size) to the file's compressed image. When executed, the stub will decompress the exact image of 'Presentation.BMP' and it will launch it in a separate process than his. It doesn't wait for the file to end nor it deletes the extracted file. It can then be used to be updated and follow the same pattern, recreate the Lipon-ized version of the new file, and re-send it again if necessary.

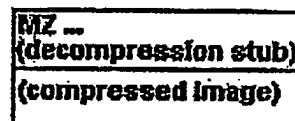
Here is how the output looks like, with the stub(decompression engine as a front-end) followed by file's compressed image.

Presentation.BMP



Lipon-ized
version

Presentation.EXE



The compression is performed using a patent free variant of LZ-77. It is an algorithm than can achieve incredible speed in decompression(which is very important here) while performing good in compression, also.

4. From the description, pick out and expand on novel and unusual features. How does the invention differ from present technology ? What problems does it solve, or what advantages does it possess ?

Mainly, there is only one step in creating a Lipon-ized EXE file from the selected 'Presentation.bmp' compared to multiple steps required to create the same 'behavior' EXE file, but using different compression utilities.

There are not known, disadvantages, rather than saying that the Lipon-ized file will extract 'Presentation.Bmp' in a temporary folder and execute the program, like all the other utilities do. It is just the only way it can be executed, after extracted on a disk.

It is very suitable while dealing with large attachments for an email. It reduces its size in just one move, without going thru all those 'required' steps. The other side will receive a self-extracting exe, that will open with only one click. The after-launch image will be exactly as the one who was previously compressed.

It can lower the size of a product by replacing all the exe's and other files with the same 'behavior' but Lipon-ized versions. In the case of Netzip files, for instance, every EXE was replaced with a Lipon-ized version, and while it kept the functionality of each individual file, the total amount of file sizes on disk has been reduced with 14.4%.

5. If not indicated previously, what are the possible uses for the invention? In addition to immediate applications, are there other uses that might be realized in the future.

The possible uses for this One Click Universal Self-Extractor has just been presented above. In addition of these immediate uses, it can be used as an overhead for more complex programs, like the Netzip Self-Extractor, where a more sophisticated engine is required to decompress the attached archive. Advanced versions of Lipon will extract/load/execute different EXE's, DLL's and manage an extremely complex and multiple system to create a more sophisticated task.

6. Does the invention possess disadvantages or limitations? Can they be overcome? How?

The only 'disadvantage' that I have seen so far, was that on case of Lipon-ized EXE files.

Since the output is also, and always, an executable file, it should have extracted and launch the file without the use of an external temporary file. While trying to overcome this 'disadvantage' even if it will require additional code therefore a larger stub, the idea seem not to be very popular because of the following reasons.

- it will prevent some files to be launched. Explanation : the stub will handle the decompression and launching of the decompressed file, instead of letting the operating system deal with that. A lot of problems are experiencing by many EXE compressor programs that had overcome this 'disadvantage'.

- the whole idea of the 'universal' Self-Extracting file will be lost because a bitmap or a document file has a different structure compared to an executable file. Explanation : there is no entry point (in a non exe file) to be called and to allow in memory execution.

7. If appropriate, enclose sketches, drawings, photographs and other materials that help illustrate the description. (Rough artwork, flow sheets, Polaroid photographs and pencils graphs are satisfactory as long as they tell a clear and understandable story)

'Penciled' lines of code and 'sketched' steps in the creation of Lipon are available and will be attached to this document.

II. Other Pertinent Data

1. Has the invention been described in specific detail or in a general way in a publication? ("Publication" for this purpose includes abstract talks, new stories, etc., as well as published papers.) Has the invention been described orally at a meeting? Please provide exact details including place, date, and authors of publication. Attach copies of any publication if available.

It has not been fully described in any publication nor a public meeting.

2. Is a publication or oral disclosure descriptive of the invention planned within the next six months? Give date (estimate if unknown) and attach copies of any existing manuscripts, preprints or abstract.

There is no planned disclosure, oral or written in a publication planned in the next six months.

3. Is there an urgency in making a patent application? If so, give the reason such as past or future use of knowledge or invention with dates and places.

It might be implemented by other sides, but not in the way it is described here.

4. Has the invention been tested experimentally? Are experimental data available?

The idea has been fully implemented/tested. An experimental program, tests and results available.

5. Are there any prior applications for a patent by the inventor on this subject? If so, list the serial number(s) and the filing date(s).

There are no prior application/patents related to this subject.

6. Are there known inventions by other workers that are related to this one? Please describe, including information on relevant patents and publications if available.

I personally do not have any information regarding any other known inventions by other workers.

7. Signature of inventor(s) (print or type name under lines)

REDACTED

Date

BELU SABIN
Belu Sabin

Disclosed to and understood by me :

REDACTED (Witness)

Date

FLORIN TROFIN

Florin Trofin



1. Title of invention

ONE CLICK UNIVERSAL SELF-EXTRACTOR

2. Date invention made

REDACTED

3. Brief Description. Is the invention a new process, composition of matter, a device or one or more products. A new use for, or an improvement to, an existing product or process.

The One Click Universal Self-Extractor, namely referred to as Lipon, after the project name, comes with a new idea that helps speeding up a process, already known, as the self extracting-archives.

A self extracting archive is a collection of files, compressed or stored, with a binary decompression engine attached as an overhead. The result is therefore an executable file that knows how to deal (list, test, extract) with the archive without help from an external unpacking utility.

The process of creating such a self extracting archive requires sometimes more steps than necessary especially when dealing with only one file, default parameters required for extraction and execution of that file.

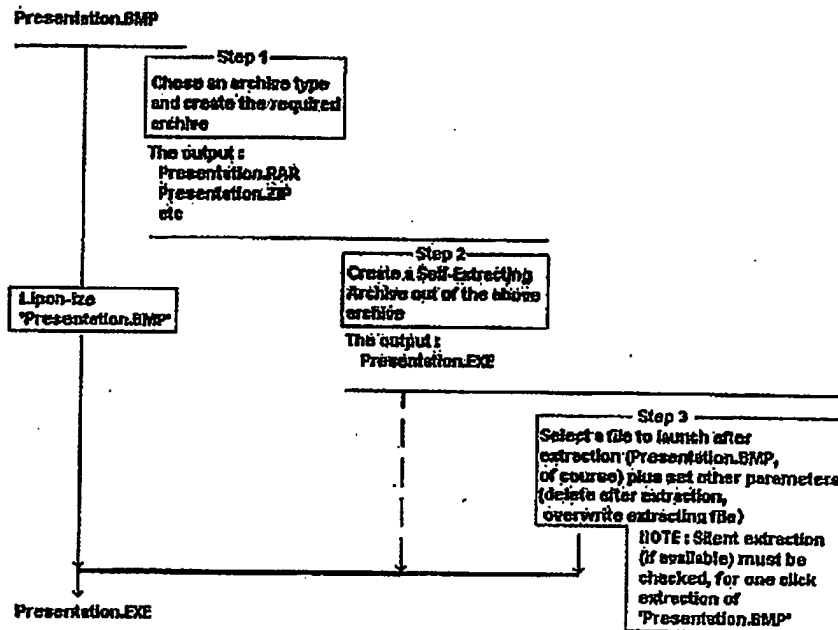
However, the One Click Universal Self Extractor, shortly, Lipon, removes the idea of an existing archive and replaces it with the idea of an universal self extracting file.

There are only known Executable compressors that deal with files and not archives. However, they deal only with executable files, of course, and they launch the executable file by loading it from the memory location where it was extracted. That is completely different from how Lipon works, extracting it in a temporary file and then executing it.

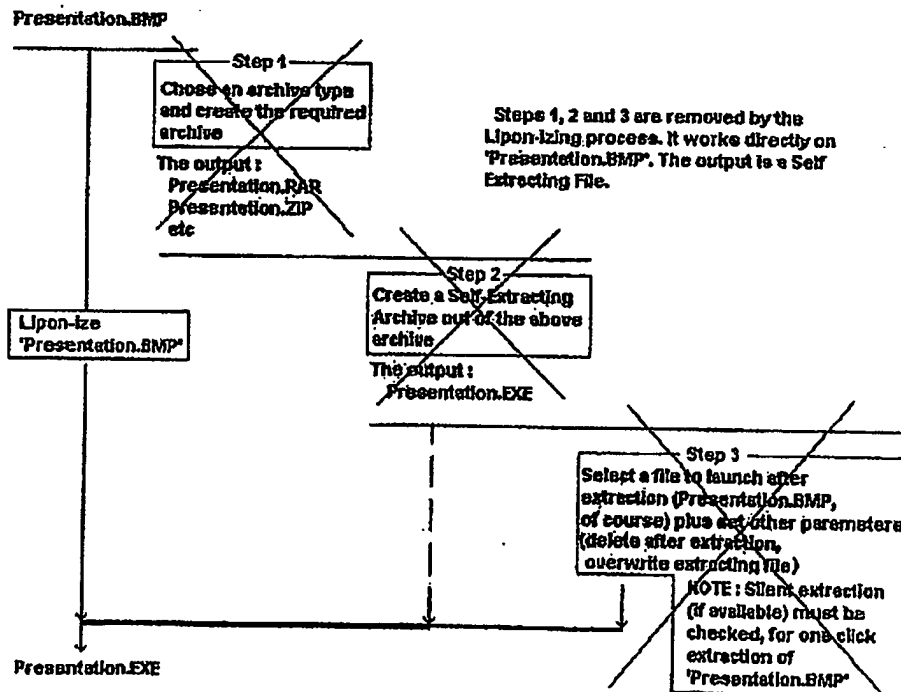
As far as I know, working with any type of file, it is a new idea. That's why it is called 'universal'.

Some might say, that it is actually an archive with only one file. True. But since the process doesn't require that extra step in obtaining the same output, we can say that the term 'archive' (meaning a collection of packed files) is not needed any more.

Here is the process of creating a One Click Universal Self-Extractor, shortly the process of Lipon-izing a file, called 'Presentation.Bmp' compared to the existing technology.

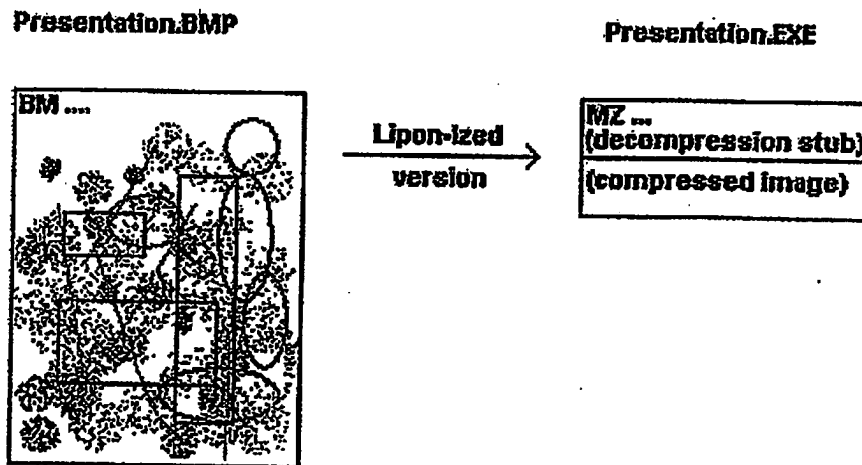


All these steps that must be followed, when using another utility, are removed by the Lipon-izing process. It works directly on the file, and with one move, it will output the exact Self-Extracting File that will otherwise require many steps in creation (if usual methods are followed).



The way Lipon.exe works on each file, is shown in this image. It attaches a decompression stub (2.5 – 3 Kbytes in size) to the file's compressed image. When executed, the stub will decompress the exact image of 'Presentation.BMP' and it will launch it in a separate process than his. It doesn't wait for the file to end nor it deletes the extracted file. It can then be used to be updated and follow the same pattern, recreate the Lipon-ized version of the new file, and re-send it again if necessary.

Here is how the output looks like, with the stub(decompression engine as a front-end) followed by file's compressed image.



The compression is performed using a patent free variant of LZ-77. It is an algorithm than can achieve incredible speed in decompression(which is very important here) while performing good in compression, also.

4. From the description, pick out and expand on novel and unusual features. How does the invention differ from present technology ? What problems does it solve, or what advantages does it possess ?

Mainly, there is only one step in creating a Lipon-ized EXE file from the selected 'Presentation.bmp' compared to multiple steps required to create the same 'behavior' EXE file, but using different compression utilities.

There are not known, disadvantages, rather than saying that the Lipon-ized file will extract 'Presentation.Bmp' in a temporary folder and execute the program, like all the other utilities do. It is just the only way it can be executed, after extracted on a disk.

It is very suitable while dealing with large attachments for an email. It reduces its size in just one move, without going thru all those 'required' steps. The other side will receive a self-extracting exe, that will open with only one click. The after-launch image will be exactly as the one who was previously compressed.

It can lower the size of a product by replacing all the exe's and other files with the same 'behavior' but Lipon-ized versions. In the case of Netzip files, for instance, every EXE was replaced with a Lipon-ized version, and while it kept the functionality of each individual file, the total amount of file sizes on disk has been reduced with 14.4%.

5. If not indicated previously, what are the possible uses for the invention ? In addition to immediate applications, are there other uses that might be realized in the future.

The possible uses for this One Click Universal Self-Extractor has just been presented above. In addition of these immediate uses, it can be used as an overhead for more complex programs, like the Netzip Self-Extractor, where a more sophisticated engine is required to decompress the attached archive. Advanced versions of Lipon will extract/load/execute different EXE's, DLL's and manage an extremely complex and multiple system to create a more sophisticated task.

6. Does the invention possess disadvantages or limitations ? Can they be overcome ? How ?

The only 'disadvantage' that I have seen so far, was that on case of Lipon-ized EXE files. Since the output is also, and always, an executable file, it should have extracted and launch the file without the use of an external temporary file. While trying to overcome this 'disadvantage' even if it will require additional code therefore a larger stub, the idea seem not to be very popular because of the following reasons.

- it will prevent some files to be launched. Explanation : the stub will handle the decompression and launching of the decompressed file, instead of letting the operating system deal with that. A lot of problems are experiencing by many EXE compressor programs that had overcome this 'disadvantage'.

- the whole idea of the 'universal' Self-Extracting file will be lost because a bitmap or a document file has a different structure compared to an executable file. Explanation : there is no entry point (in a non exe file) to be called and to allow in memory execution.

7. If appropriate, enclose sketches, drawings, photographs and other materials that help illustrate the description. (Rough artwork, flow sheets, Polaroid photographs and pencils graphs are satisfactory as long as they tell a clear and understandable story)

'Penciled' lines of code and 'sketched' steps in the creation of Lipon are available and will be attached to this document.

II. Other Pertinent Data

1. Has the invention been described in specific detail or in a general way in a publication ? ("Publication" for this purpose includes abstract talks, new stories, etc., as well as published papers.) Has the invention been described orally at a meeting ? Please provide exact details including place, date, and authors of publication. Attach copies of any publication if available.

It has not been fully described in any publication nor a public meeting.

2. Is a publication or oral disclosure descriptive of the invention planned within the next six months ? Give date (estimate if unknown) and attach copies of any existing manuscripts, preprints or abstract.

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5. Are there any prior applications for a patent by the inventor on this subject? If so, list the serial number(s) and the filing date(s).

There are no prior application/patents related to this subject.

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I personally do not have any information regarding any other known inventions by other workers.

7. Signature of inventor(s) (print or type name under lines)

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BELU SAPIIN

Peta Gohir

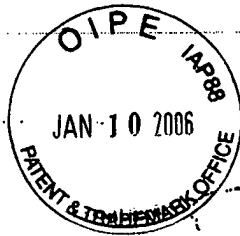
Disclosed to and understood by me :

[Signature]

(Witness)

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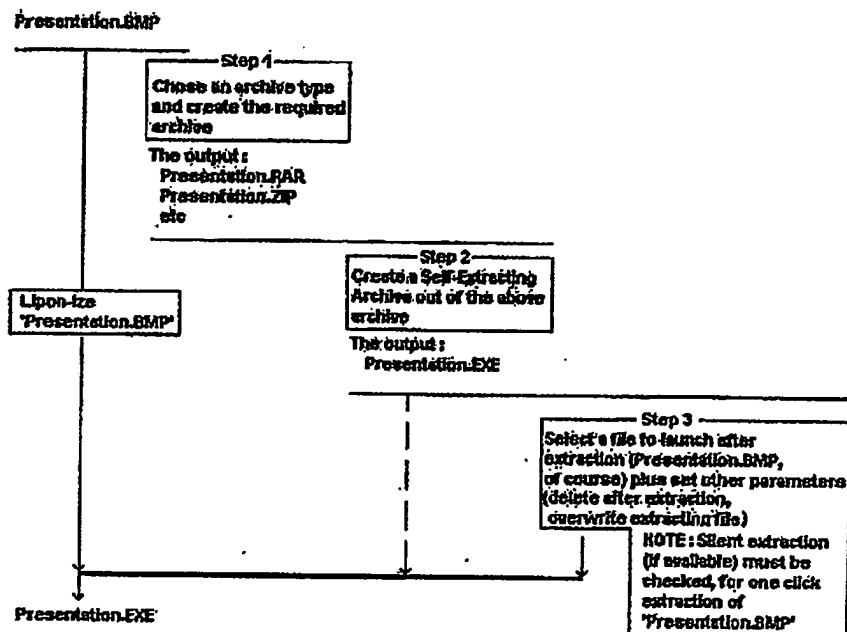
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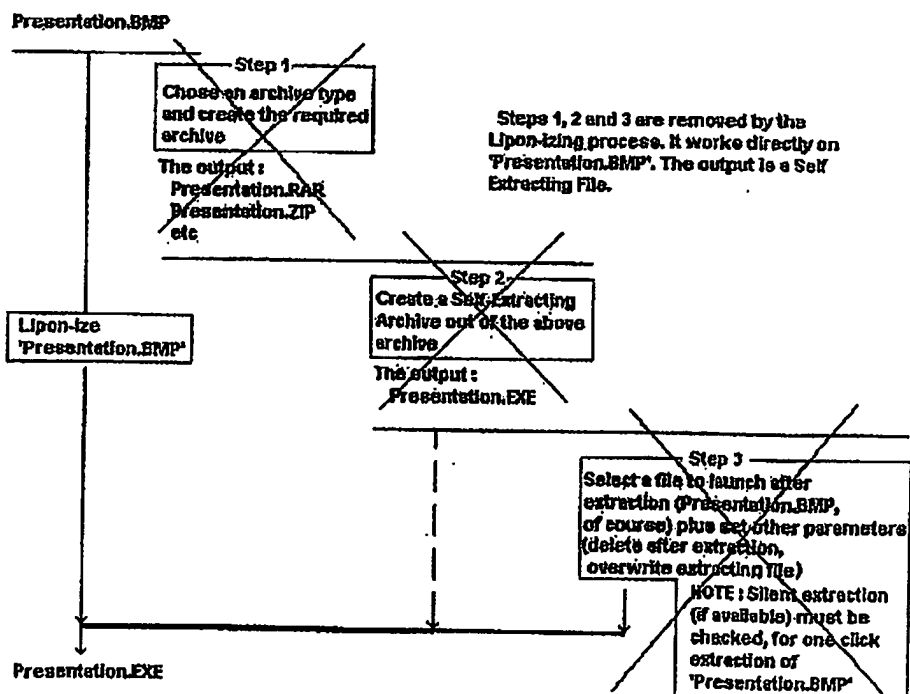
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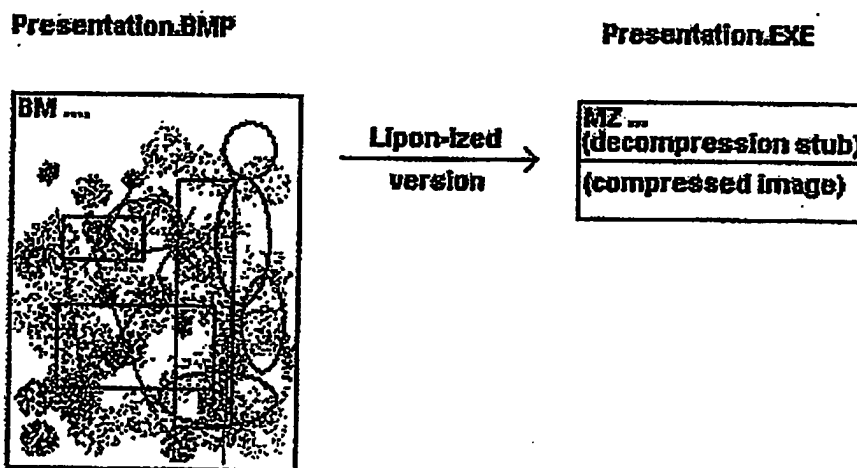


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I personally do not have any information regarding any other known inventions by other workers.

7. Signature of inventor(s) (print or type name under lines)

REDACTED

Date

BEU SABIN

John White

Disclosed to and understood by me :

REDACTED

(Witness)

Date

James M. Knaack

John White

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